

Apprenticeship Maintenance & Operations Engineering Technician Level 3

QUALIFICATION OBJECTIVES

This Standard is called the Maintenance and Operations Engineering Technician. This is a multi-discipline Standard and encompasses different roles within the workplace.

QUALIFICATION REQUIRED BEHAVIOURS ARE

- **Health & Safety** – follows health & safety policies and procedures and is prepared to challenge unsafe behaviour using appropriate techniques to ensure the protection of people and property when working alone and/or with appropriate supervision.
- **Quality focused** – Ensures that work achieves quality standards both occupationally and personally.
- **Working with others** – Works well with people from different disciplines, backgrounds and expertise to accomplish an activity safely and timely.
- **Interpersonal skills** – Works well with others and takes their needs and concerns into account.
- **Critical reasoning** – Uses resources, techniques and obtain facts to develop sound solutions while recognising and defining problems.
- **Sustainability and ethical behaviour** – Behaves ethically and undertakes work in a way that contributes to sustainable development.
- **Risk awareness** – Demonstrates high levels of concentration, the desire to reduce risks, ability to be compliant and awareness of change, through regular monitoring and checking of information.

QUALIFICATION DELIVERY

This Apprenticeship Standard can be flexible depending on the training plan designed by the employer and provider; however, it will need to meet the requirements of the End Point Assessment. Typically in Year 1, the Apprentice will attend four days in a week, completing practical skills within IPS Rochester workshop (Performing Engineering Operations) and one day a week studying the Technical Certificate. In Year 2, the Apprentice moves to day-release and will attend the Training Centre one day a week to continue the Technical Certificate. Starting in Year 2, and continuing until they are ready for the End Point Assessment in Year 4. The Apprentice will continue to receive regular training contact with IPS all throughout the programme.

The Awarding Organisations typically used to achieve this Standard are:



Entry

Employers will set their own entry requirements in order to start on this Apprenticeship. In order to optimise success, candidates will typically have 3 GCSEs at Grade C/4 or equivalent; including mathematics, English and Science.

Duration

Typically 36-42 months, but timescales may vary depending on occupational role and/or prior relevant qualifications/experience and Assessment of prior learning and knowledge.

Progression

Progression is available for the Apprentice to move to a higher Apprenticeship or higher education.

Level

This Maintenance and Operations Engineering Technician Apprenticeship Standard is at Level 3.

Functional Skills

To complete this Apprenticeship, the apprentice must pass Level 2 English and maths (or have the appropriate transferable skills).

For further information

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Role Profile

Maintenance & Operations Engineering Technician's covers: Electrical Technicians; Mechanical Technicians, Control & Instrumentation Technicians, Electrical System and Process Control Technicians, Electromechanical Technicians and Plant Operations Technicians. They will maintain the safety, integrity and effective operation of plant and equipment in one or more of the following industries that are part of or have activities that are part of the broader national infrastructure Engineering Sector. The electricity generating environment, which may use a range of different fuels including coal, gas, nuclear, wind and other renewable sources. Telecommunications power plants; oil and gas refining. Nuclear waste reprocessing; processing and production of chemicals, pharmaceutical, human and animal food, cosmetics, petrochemicals, sewerage and the exploration and exploitation of oil and gas.

Apprenticeship Standard Core Knowledge and Skills

Core Knowledge:

A Technician will understand the first principles relating to the operation and maintenance of appropriate plant and equipment.

Relevant industry health and safety standards, regulations, and environmental and regulatory requirements.

Maintenance and operational practices, processes and procedures covering a range of plant and equipment.

The relevant engineering theories and principles relative to their occupation.

Specific Specialist Skills:

Comply with industry health, safety and environmental working practices and regulations.

Locate and rectify faults on plant and equipment.

Communicate with and provide information to stakeholders in line with personal role and responsibilities.

Read, understand and interpret information and work in compliance with technical specifications and supporting documentation.

Prepare work areas to undertake work related activities and reinstate those areas after the completion of the work related activities.

Inspect and maintain appropriate plant and equipment to meet operational requirements.

Assess and test the performance and condition of plant and equipment.

Communicate, handover and confirm that the appropriate engineering process has been completed to specification.



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SPECIALIST ROLES:

- Electrical Technician
- Mechanical Technician
- Control and Instrumentation Technican
- Electrical System and Process Control Technician
- Electromechanical Technician
- Plant Operations Technician

EPA Gateway - YEAR 3-4

In order to be ready for End Point Assessment the Apprentice must have achieved:

- A.** Pass, Merit or Distinction in the selected Level 3 Technical Knowledge Qualification
- B.** A binary grade Pass in the Level 3 Occupational Competence Qualification
- C.** The required behaviors aligned to an Maintenance and Operations Engineering Technician
- D.** English and maths qualifications at Level 2

END POINT ASSESSMENT FINAL 6 MONTHS

End Point Assessment must be undertaken by an independent assessment organisation that is on the Skills Funding Agency Register of Apprentice Assessment Organisations.

The End-Point Assessment may be completed over a six month period to accommodate work scheduling and cost-effective planning of resources.

Achievement of the End-Point Assessment will lead to final certification of the Apprenticeship and demonstrate that the Apprentice is a thoroughly competent Technician.

It uses the following assessment tools and should be undertaken in this order:

- Knowledge assessment (weighing 20%)
- A final observation of practical work (weighing 40%)
- A technical interview, based upon an evidence based portfolio which will include all evidence of practical observations, progress reviews and work activities (weighing 40%)

APPRENTICE COMPLETION CERTIFICATE: Final employer Sign Off & Professional Engineering Institution (PEI) applies for the Apprentice's completion certificate.